



BADGER STATE Smoke Signals



Serving Amateur Radio in Wisconsin

Published Monthly Since 1969

Vol. 17 No. 8 - 200th Consecutive Monthly Issue - Baraboo, Wis. - August 1986



Badger State Smoke Signals supports: The American Radio Relay League (ARRL) - The Wisconsin Nets Association (WNA) - The Wisconsin Association of Repeaters (WAR) - The Amateur Radio News Service (ARNS) - The Courage Handi-Ham System - The Morse Telegraph Club - GEARVAKf (The 'f' is silent)

Badger State Smoke SignalsOfficers:

Ken Ebnetter, K9EN, Chairman
 Jim Romelfanger, K9ZZ, Editor
 Jim Decker, WB9UQT, Treasurer

Send editorial material and
 exchange papers to:

Jim Romelfanger, K9ZZ, Editor
 301 1/2 7th St.
 Baraboo, Wisconsin 53913

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Badger State Smoke Signals
 Jim Decker, WB9UQT, Treasurer
 P.O. Box 337
 Baraboo, Wisconsin 53913-0337

Send address corrections and
 changes to:

Kenneth A. Ebnetter, K9EN
 822 Wauona Trail
 Portage, Wisconsin 53901

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SWAPFESTS AND OTHER SOCIAL EVENTS

The Cedar Valley Summerfest will be held on August 2 & 3, 1986, at the Five Seasons Center in the Heart of Downtown Cedar Rapids, IA.

Saturday, August 16, 1968. The Green Bay Mike & Key Club's Swapfest will be held at the Community Center behind St. Mary's Hospital (on Dousman St.) in Green Bay. FREE admission. 8 ft. tables by reservation only - \$5.00.

Saturday, August 16, 1986 -- The Rhinelander Swapfest, sponsored by the Northwoods ARC & ARES. 8:00 am to 3:00 pm - No charge for tables on first come first served basis - Tickets \$1.00 each or 6 for \$5.00 - Dealers welcome. Contact Leonard Bauman, K9RMW, 1312 Dorothy St., Rhinelander, WI 54501 or phone 715-369-3296.

September 5, 6 & 7. ARRL National Convention, San Diego. See QST for details.

September 20, 1968 -- The 1986 WNA Picnic.

Sunday October 12, 1968 -- The KMRA Swapfest in Waukesha, WI. KMRA, P.O. Box 411, Waukesha, WI 53187.

October 18-19. ARRL Central Division Convention, St. Charles, ILL.

Rockford Hamfest, Computer Fair and ARRL Illinois State Convention will be held on November 16, 1986, at Rockford, IL. Contact Gary Hilker, K9LJN, 804 Otto Road, Rockford, IL 61111 (815) 654-3282

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages, and/or we can include your flyers. For information on rates and requirements for our advertising pages, and/or for including flyers, please contact K9ZZ or K9EN.

CLUB MEETINGS:Badger Amateur Radio Society

(W9YT - University of Wisconsin - Madison)

Regular monthly meetings are held at 7:30 PM on the 2nd Wednesday of every month while school is in session, in 8314 Electrical Engineering Building.

Central Wisconsin Radio Amateurs, Ltd. (Stevens Point)

Regular club meetings are held on the second Wednesday of the month.

Eau Claire A.R.C.

The Eau Claire Amateur Radio Club meets every second Tuesday of the month. Hams and guests are welcome.

Four Lakes A.R.C. (Madison WI)

RED CROSS BUILDING, 4860 Sheboygan Ave, Madison, WI., first and third Tuesday each month.

Green Fox Amateur Radio Club

Meetings are held the third Monday of the month at 7:30 p.m. at the Green Lake Town Hall located at the intersection of county highways K and N.

Kettle Moraine Radio Amateurs:

All meetings are held on the SECOND (2nd) Friday of each month.

Manitowoc County Radio Amateurs

MANCOCRAD meets on the third Wednesday of each month at 7:30 p.m. at Manitowoc Red Cross Bldg, 20th and Washington Streets in Manitowoc WI.

Milwaukee Radio Amateurs Club:

All regular meetings of MRAC scheduled for 1986 at Wauwatosa Savings and Loan Building, 7500 West State Street, will be held on the second Thursday of the month. NO MRAC MEETINGS ARE SCHEDULED FOR JULY AND AUGUST.

Ozaukee Radio Club

Meetings held every second Wednesday at 7:30 p.m. in the Saukville Community Center

Riverland Amateur Radio Club

Regular meetings are held at 7:30 P.M., on the first Wednesday of each month in the Onalaska Community Center in Onalaska, WI.

South Milwaukee Amateur Radio Club

Meetings held at Legion Post 434, Shepard Ave., Oak Creek, on first Wednesday of the month. Auctions held at March and October meetings.

West Allis Radio Amateurs Club

Regular meetings are held on the second Tuesday of each month at St. Francis Savings, 9330 W. Greenfield Ave., at 8:00 P.M.

The Wisconsin Valley Radio Association. (Wausau)

Holds regular monthly meetings on the first Tuesday of the month at 7:30 p.m. The location varies, but information is available on the 146.04/64 repeater in Wausau.

Yellow Thunder Amateur Radio Club:

(Baraboo, WI)

All regular meetings of VTARC are at the Baraboo Civic Center. Meetings start at 7:30 P.M.

The meeting dates for 1986 are: Aug. 14, in room 29, Sep. 15, in room 25, Oct. 14, in room 25, Nov. 12, in room 29, & Dec. 11 in room 29.

Let us know of your club meeting dates, and we will let others know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS MISCELLANEOUS
Oh what the heck -- items of interest:

Many clubs report plans for Parades, Field Day, and summer picnics. BSSS would like to have reports (including pictures) of your activities.

I had the pleasure of working the ARRL booth at the Eau Claire Hamfest in July. They put on a fine, well attended event. (It didn't rain inside.) -- K9EN

BSSS was represented by Jim, WB9UQT, at the South Milwaukee Hamfest. Jim reported a good crowd for the Hamfest and the WAPR meeting following. The rain only slightly dampened spirits.

Milwaukee Radio Amateurs Club
HAMATEUR CHATTER

The Prestigious Milwaukee RAC will set up and operate on Amateur Radio station at the POLISH FEST 1986 at the Lakefront Summerfest Grounds on August 28-31. At a prominent location, we will show Amateur Radio station operation, and will try to contact other Polish Hams on this continent, and, if conditions permit, Poland.

Our thanks to the above mentioned clubs and their bulletins for the information presented. Badger State Smoke Signals will be pleased to exchange bulletins and information with your club. Please contact K9ZZ or K9EN.

Oh, give me a home where the buffalo roam
And the deer and the antelope play.

....and I'll show you a dirty house.

THE TEST POINT

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

August 16, 1986	Green Bay, WI
August 16, 1986	Waukesha, WI
August 16, 1986	Robbinsdale, MN
August 23, 1986	Milwaukee, WI
September 20, 1986	Waukesha, WI
September 20, 1986	St. Paul, MN
October 18, 1986	Minneapolis, MN
November 1, 1986	Stevens Point, WI
November 15, 1986	Robbinsdale, MN
December 13, 1986	St. Paul, MN
Third Sat. Monthly	Loves Park, IL

General rules for all examinations:

All examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs may permit walkins. Check with sponsor to find out if they allow walkins.)

To register for these examinations, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from the FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 22¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group. Remember-- you must file at least 30 days in advance unless otherwise indicated.

ARRL/VEC examinations require a check for \$4.25 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. As in the past, a copy of your license must be attached to your FCC form 610.

Additional information is given below.

August 16, 1986 - Green Bay, WI

Contact: Larry Siebers
1005 SE St., Apt 111
Appleton, WI 54915

MILWAUKEE VOLUNTEER CORE GROUP - (DEVRY VEC)

August 16, 1986, September 20, 1986:

The MVCG will be giving Amateur Radio exams in the Service Occupation Building in rooms S0208 and S0209 at the Waukesha County Technical Institute on the above dates. Exam fee is \$4.00. Walkins welcome. Free coffee at WCTI only. Exams begin at 9:00 a.m. All exams available in Braille, large type, and on cassette tape for visually impaired. Bring your original Amateur license. If interested, please send a post card with your name, address, phone number, date of test session, and grade of license you wish to achieve, to Syl Janczak, WD9JKZ, 3127A West Madison, Milwaukee WI 53215.

Note: All exams are available in Braille, large type, and on cassette tape for the visually impaired. Exams for shut-ins by appointment only.

Saturday, August 23, 1986

The Milwaukee Metro Area Test Team tests for FCC Amateur Radio Licenses will be conducted at:
Wauwatosa Savings and Loan Building (lower level)
7500 West State St.

Persons desiring to take the test should register in advance on a post card mailed to:

The Milwaukee Radio Amateurs' Club, Inc.
N50 W16328 Pin Oak Court
Menomonee Falls, WI 53051

Mail ins accomodated as far as time permits. The Milwaukee Metro Area Test Team invites you to take your FCC license tests with them. Why not support a home state operation.

November 1, 1986 Stevens Point, WI

Central Wisconsin Radio Amateurs, Ltd. - (ARRL/VEC)

Contact: Joe Larson N9JW
644 Portage Street
Stevens Point WI 54481

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC).
Held at North Suburban Library on North Second Street
in Loves Park, IL.

Contact:

Gene Melton, AK9N
124 S. Chicago Ave. #2
Rockford, IL
(815) 229-7249

Minnesota tests - contact information:

Gopher/Minneapolis ARC:	Robbinsdale ARC:
Fred Hird	Neil McMillan
4716 Emerson Ave. S.	11132 97th Place
Minneapolis, MN 55409	Minneapolis, MN 55369
824-7702	(424-6248)

St. Paul ARC:

Jay Bellows
977 Portland Ave.
St. Paul, MN 55104
222-7253 (home) - 291-8015 (work)

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ at the address shown on page 2.

EXAM RESULTS - STEVENS POINT

Congratulations to the following, who upgraded at the exam session held June 15, 1986, at the Blue Top in Stevens Point:

Lars Hallberg, K9HPT, Minocqua, Extra Class
Stephen Harr, N7FIN, Eau Claire, Advanced
Arthur Bonnee, KA9KLM, Woodruff, Advanced
James Popanz, N9FOL, Wausau, Advanced
Daniel Fuhrman, N9FSH, Wittenberg, Advanced
Carl Plotz, WB9JSH, Oshkosh, Advanced
Emil Havel, N9AXV, Manitowoc, Advanced
Robert Drengberg, KA9PQX, Stevens Point, General
Mark Vieth, KA0UDV, Waverly IA, General
LeRoy Markow, KA9UYB, Medford, General
Thomas Heiser, KA9TIB, Wisconsin Rapids, General
James Stolzman, KA9UNW, Appleton, Technician
Thomas Hrdina, KA9UXV, Medford, Technician
Robert Thurman, KA9VFG, Cecil, Technician
Sande Gerbers, KA9UNA, Oshkosh, Technician
Robert Angsten, KA9VKN, Waupaca, Technician
Terry Benzine, KA9UHE, Custer, Technician
Gordon Thielke, WB9ASX, Westboro, 13 wpm code cert.

(Thanks to K9BDF for the above)

WANT ADS

FOR SALE: QST 1950 thru 1985, 26 copies older. 130 copies of CQ, 1947 to 1961. All in excellent condition. Pick em up for \$75.00. Will pack for shipping for \$25.00. You pay shipping. Hogden - W9FIO, 211 E. 2nd., Ettrick, WI 54627.

Your ad can run here...For a mere fifty cents a line, you, too, can advertise in Badger State! Send your copy and humble remittance to Keeper of the Funds, Jim Decker, WB9UQT, P.O. Box 337, Baraboo, Wisconsin 53913-0337

ALL-BAND OPTIMIZED VERTICAL ELEMENT (ABOVE) ANTENNA A NEW DISCOVERY

BEARVAKf, Spring, 1986

BEARVAKf researchers, under contract to the Raygun Administration's Strategic Defense Initiative program, have discovered a new phenomenon that promises to revolutionize amateur communications.

While attempting to vaporize titanium targets with a high - powered particle beam weapon, research assistant, Homer T. Scornbottom, observed that the ionized path of the particle beam could be excited with any low - cost, made in Japan rig, and proceeded to do just that.

The resulting antenna was fully tunable by varying the power applied to the linear accelerator generating the particle beam. Application of this principle to ham antennas will allow a single antenna to be useful at any frequency with an SWR of 1:1 without the mess or bother of a conventional antenna tuner. Furthermore, no navigational lights are required as the particle beam is self - illuminated. -WB7TGO



YELLOW THUNDER A.R.C.

The July 16, 1986, meeting of the Yellow Thunder Amateur Radio Club, Inc. was called to order in room 29 of the Baraboo Civic Center at 7:30 PM by President Art Kleefisch, W9WSS.

The following members were present:

Art Kleefisch, W9WSS	Baraboo, WI
Steve Schwegler, WB9RNL	Wisconsin Dells, WI
Ken Ebner, K9EN	Portage, WI
Jim Decker, WB9UQT	Baraboo, WI
Norman J. Gade, K9ELK	Reedsburg, WI
Harry Mayland, K9FFT	Baraboo, WI
Harry Westlund, K9EHJ	Baraboo, WI
Bill Klinkner	Sauk City, WI

The minutes of the previous meeting were approved as printed in Badger State Smoke Signals.

Communications and announcements: Items were read from Westlink Report, The ARRL Letter and some hamfest announcements. Ken, K9EN, announced that he would be a candidate for ARRL Vice Director.

The Treasurers report was read and accepted.

Old Business: Discussion of club purchase of test equipment. (Multi-meter and/or a frequency counter.)

No new business:

Door prize: The prize this month was \$4.00. The name picked by Art's calculation was Ruth Familetti. Since the winner was not present the prize will be \$5.00 next month.

The meeting was adjourned.

There was no scheduled program for this meeting and several members then went to the Country Kitchen for carrot cake etc.

Respectfully submitted,
Ken Ebner, K9EN, Secretary

YTARC BIRTHDAY:

Jim Decker	WB9UQT	August	16
Ken Johnson	K9DZG	August	25

SENTENCE SERMON

We learn from experience. A man never wakes up his second baby just to see it smile.

When you can't figure out how to set your electronic clock, ask the eight year old boy next door.

A doctor tells us that singing warms the blood. We have heard some that made ours boil.

MILWAUKEE VOLUNTEER CORE GROUP AWARDED PLAQUE

By Richard R. Regent K9GDF
5003 South 26th Street
Milwaukee WI 53221

It is a rainy morning as the busy Milwaukee Volunteer Core Group gives Amateur Radio exams at the South Milwaukee Swapfest.

Some folks keep dry inside the exam room while they try to upgrade their licenses. Throughout the morning, candidates are greeted by the friendly smile of Syl Janczak, WD9JKZ, whispering his encouraging "Hello, come on in," near the entrance. Inside, the exams are going smoothly and the Volunteer Examiners have activities under complete control.

In the past two years, the Core Group of 25 volunteers has given over 500 exams in many Wisconsin cities, even going out of their way to make exams available to license candidates who are blind, handicapped, or shut-ins, with tests in Braille, large type, or on cassette tape.

Syl volunteers over 500 hours each year to plan, organize, direct, and control the successful exam program. The Group has maintained high standards of integrity and service to Amateur Radio.

By early afternoon, the last test taker leaves. Syl and the volunteer examiners complete paperwork and then tiredly walk to the next building for a late lunch. Soon, several W/K Club members and I head over to their table, where we find Syl and a few examiners quietly and slowly eating hamburgers.

W/K Amateur Radio Club President Brian Cieslak, AE9K, says "Hello, volunteers," and congratulates them on a job well done. I unwrap a plaque as a surprise presentation.

As I read the award, all listen to the story of their accomplishments.

Finally, I present the award to Syl on behalf of the W/K Amateur Radio Club of Greater Milwaukee and the American Radio Relay League, handing it over to Syl with a handshake, "Congratulations." Syl, worn from a hard days work, energizes one of his big smiles and gives us a sincere "Thank you."

We wanted to stay longer to talk, but move on so the hungry volunteers could finish their lunches. It was a day to remember; the rain, the plaque, and the hard working Group.

(Editor's Note: Badger State Smoke Signals also congratulates Syl and his Group. Their hard work - voluntarily and freely given - is deeply appreciated by all of us. Without them, and the others who also work so long and hard for our hobby, we would be in sad shape, indeed. k9zz.)

Our 200th Issue

Shortly after the Yellow Thunder Amateur Radio Club of the Baraboo area began its existence in the Fall of 1969, a club newspaper was started - Yellow Thunder Smoke Signals.

The paper was published once a month - every month, without a missed issue - and it's the paper you are reading right now.

About three years ago, it was decided to separate the paper from the club, making the paper independent. To indicate that the paper served Amateur Radio in all of Wisconsin, the name became Badger State Smoke Signals.

And, here we are.. issue #200.

Since its humble beginning in 1969, a lot of words have appeared on its pages, and, over the years, a lot of pictures have been run as well.

In the beginning, the paper was done on a typewriter, and was bashed directly onto a mimeograph stencil - no real editing. That led to errors, of course, but it also resulted in spontaneity.. sort of "off the wall."

Now the paper is done entirely using computers and word processors, along with K9EN's database for the mailing list.

The paper was a volunteer effort when it started, and it still is. Were it not for labor freely given, and the excellent support we've gotten from our advertisers, along with our many loyal subscribers, you wouldn't

be reading this.

I'm sure there are at least a few readers who remember our beginning, and who are still subscribers today. To them, to all our subscribers, to our advertisers, to our volunteer authors, crossword puzzle artists and cartoonists, and to our good volunteer work crew, we say "thank you all," and we hope we will be able to say all of this again in our 400th issue.. and our 800th.. and on and on.

A special thanks to Joe Ash, W9ODV, Sheboygan, whose 200th issue cartoon graces our cover this month!

:-----:

We send our congrats to Rick (WB9EWQ) and Judy Anderson, who reside in Washington state, on the birth of a 6 pound, 13 ounce baby girl, Sara Nicole Anderson. This makes dad Phil, W9TP, of Baraboo, a grandpa, his wife Jo Ann a grandma, Steve, WD9ESA, an uncle, and Sue Hultgren, WB9EWP, an aunt.

A note from friend Fred Laun, K3ZO, sez he got married in April to Somporn, from Thailand, and, by now, he has departed stateside for his next assignment as Counsellor for Public Affairs in Managua, Nicaragua. It's a two year assignment, and Fred sez it's unlikely that he will be able to get a Ham ticket.

Fred sent a clipping from the Kiel Tri-County Record, his hometown newspaper. In it are photos of the Kiel Municipal Band, and in the photos of the band are Art Fahr, K9XJ, and Warren Wirth, W9BTP. Warren is a soloist with the band.

Coming next month in BSSS: All aboard the Circus Train.. and that includes Ham Radio; you'll read the story and see some photos.. You may see Earl and Pearl; you might even find out where Fred Wendt!

The train, pulled by retired Chicago and North Western steam locomotive 1385, chugged out of Baraboo and headed to Milwaukee via Janesville and Chicago, a 2-day trip.

Does anyone have Visicalc for the Radio Shack Model 4? If you do, please communicate with your Editor.. k9zz.



THAT'LL BE TEN BUCKS FOR THE GAS AND TWENTY FOR THE FLUORESCENT LAMPS.

EPA PROPOSES RF EXPOSURE LIMITS

From the ARRL Letter, July 7, 1986

The Environmental Protection Agency has proposed to limit public exposure to RF radiation from communications.

The Agency noted that presently there are no federal standards limiting public exposure to RF radiation, and biological effects have been observed in laboratory animals exposed to RF radiation in experiments.

The EPA proposes four alternatives for controlling public exposure to radio frequency energy. What will eventually emerge from the process will be guidelines for the other federal agencies. The Federal Communications Commission, at its discretion, may apply the guidelines to its licensees.

Two of the EPA alternatives are much stricter than the ANSI standard C.95.1-1982 (which sets limits of energy at 100 milliwatts per square centimeter at 0.3 to 3 MHz, dropping to 1 milliwatt per square centimeter at 30-300 MHz, then rising slightly to 5 milliwatts per square centimeter at frequencies above 15 GHz).

The EPA makes the matter more confusing for laymen by using different references. It talks of whole-body average specific absorption rates or SARs, expressed in watts per kilogram of body mass (W/kg) for frequencies above 3 MHz!

For frequencies below that, a different kind of standard is used, placing separate limits on the electric field and magnetic field intensities.

The tightest guideline would have an SAR of 0.04 W/kg above 3 MHz, with the electric field intensity at 87 volts per meter (V/m) and magnetic field intensity at 0.23 amperes per meter (A/m). This guideline is said to be similar to that imposed in Portland, Oregon. It would cost the broadcast industry about \$34,000,000 to comply with this guideline, EPA says.

The next level would have SARs of 0.08 W/kg, electric field of 275 V/m and magnetic field of 0.73 A/m. The cost to the industry would be \$22,700,000.

The third level would have SARs of 0.4 W/kg, electric field at 614 V/m and magnetic field of 1.63 A/m. Broadcasters compliance costs would drop to \$12,400,000. This level is said to be equivalent to the ANSI standard.

The fourth option is nonregulatory: public awareness programs to distribute

information on health effects and environmental measurements, and providing technical assistance to states and federal agencies.

Since the actual proposal was not available at press time, it's unknown whether the proposal will affect radio Amateurs or even what the Docket number is for filing comments.

The ARRL will lean heavily on its volunteer panel of experts, the Committee on the Biological Effects of RF Energy, for advice on what our position should be. Stay tuned for further information.

:-----:

An 11-meter CB transceiver in La Habra, California, has been shot to death by an armed intruder.

According to the Orange County Register Dennis Carrico was talking on his CB set after midnight when he sensed that he was no longer alone.

Carrico turned and saw a stranger with a gun standing over him. The gunman ordered him to turn off the CB and move away from it. Carrico obeyed, after which the visitor shot it three times and quietly left.

Carrico was not harmed, but his \$500 transceiver was destroyed.

Police theorize that the attack was in retaliation for TVL.

The gunman was described as a white male, 45 years old, blonde hair, 5' 8" tall and weighing about 155 pounds. Anyone with information on the identity of the CB assassin is asked to contact Captain Herb Johnson of the La Habra Police Department. Tnx KBOV and Westlink.

:-----:

On June 23, the US House of Representatives, by a voice vote, passed the Electronic Communications Privacy Act bill.

On June 10, the bill had been favorably reported out of the House Judiciary Committee, where the number of the bill was changed from HR 3378 to HR 4952, by a vote of 34-0.

In the Senate, Sen. Patrick Leahy (D-Vt), has introduced an identically worded bill, S. 2575, for consideration by the Subcommittee on Patents, Copyrights and Trademarks.

It is expected that the Subcommittee will act on the bill sometime after mid-July.



On July 2, 1986, at 7:40 p.m., the regular monthly meeting of the Riverland Amateur Radio Club was called to order by Vice-President Rick Williams. Minutes of the June meeting were approved as read from the Badger State Smoke Signals. Treasurer's report was approved.

37/97 Report: During a recent power outage in the area, the repeater was forced to go on emergency power for 45 minutes. The emergency power worked good during this period. The only problem experienced was the squelch had opened after a certain length of time. This problem was taken care of and the repeater committee is confident the repeater will operate properly on emergency power in the future.

An estimate has been obtained for the replacement of the receive antenna and transmit antenna mount, G7 Hustler at \$119.00 receive antenna, new mount \$100.00 and \$119.00 for a transmit antenna, and \$20.00 for 2 pieces of RG213 coax. A motion was made and seconded that the repeater committee go ahead with the purchase and replacement of both antennas. The motion was passed.

VE Exam: Next exam is tentatively being scheduled for December. Based on the amount of people wishing to take an exam in this area, it looks as though twice a year will be sufficient to handle them.

Field Day: Comments were made as to the success that we had on Field Day. Special thanks to Al Hoffman for the use of his front yard for a very good Field Day location. Thanks were extended to all who attended and helped with setup, broadcasting and teardown.

Old Business: There was no old business.

New Business: There was a discussion on the ARRL's new proposal to the FCC on the new Novice privileges. After a lengthy discussion, a motion was made and seconded that we draft a letter expressing that we support the new proposal as presented by the ARRL. The motion was passed.

An introduction and welcome was extended to the new people who were in attendance.

Saturday, July 26 at 8:00 a.m. will be our local Swapfest at the Onalaska Community Center.

There were some technical questions thrown out at the membership for the members to find answers.

Meeting was adjourned at 8:12 p.m. No program was scheduled. Total members present was 25.

Respectfully submitted by Greg A. Miller

Members Present

Rick Williams
Brenda Holder
Greg A. Miller
Dick Low
Bob Anderson
Bill Winder
Ernie Gershon
Art Osborn
Bruce Bjerstedt
Jack Yoshizumi
Wid Johnson
Duane Fruechte
Al Skwertz
Ray Wakeen
Gary Webb
Van Elston
Jim Theisen
Gary Countryman
Roger Reader
Knute Knutson
Dallas C. Miller
Scott Neader
Charlie Burch
Dan McKenzie
Jim Molledahl

KV9U
WB0WQJ
KA9FOZ
K0JYB
WA0VHO
K9EGQ
K9ZVU
W0JDC
K9CUT
W9KDT
W9DM
W9HWQ
W9QHN
WA9HHM
N19V
WA9FIO
KD9EG
KD9RL
KA9BKK
W9SFL
K9LEC
KA9FOX
KA9VVK
A19D
W9BI

Guests Present

Al Reinholz
Karl L. Olberg
Bryan O'Brien

KA9VCF/KT
W4ST
Maty Johnson

David Carlisle

From Your President

As most of you well know, the club participated in Field Day again this year. We did fairly well, the total count hasn't been taken yet, but there were around 1824 phone contacts, 61 CW, and 5 by Packet Radio on 2 meters during our 24 hours of operating.

Riverland ARC - Continued

I hate to start naming names to thank certain people for helping out, because I'm sure to forget someone, and if I do, please forgive me. There are a few people, however, that I feel I should mention.

First of all, a big thank you to Al Hoffman and his wife, whose property we used for our site, and it worked just great. They were always checking with us to see if we needed anything that they could supply us with.

Greg Miller for letting us use his camper trailer and for all the extra work it takes to get it ready to use.

Scott Neader and WLXR AM and FM for letting us use their generator as a backup.

Also, a special thanks to the setup crew: Dick Low, Bob Anderson, Gary Webb, Greg Miller, Scott Neader, and Rick Williams.

Bob, Gary, Greg, Scott, and Rick were all operator/dupe checkers, along with Ron Reed, Jim Burcum, and Steve Pavela.

Duane Fruechte, who went from the site to Trempeleau and back to bring his Packet station out and give us an extra 100 bonus points.

Scott Neader was also one of our marathon ops who went the distance and group "spark plug" (say, was that NA7G or AA7G??)

The takedown crew: Gary Webb, Scott Neader and Co., Greg Miller, Al Hoffman, and, to all who stopped out to the site to see what was happening and chew the rag. You all helped to make it a success.

Again, thank you one and all ---- for now.

Craig, N9ETD

Congratulations to W9BI

On June 7, 1986, in Port Washington, Wis., the semi-annual meeting of the Quarter Century Wireless Association (QCWA) was held. At that meeting, Jim Molledahl, W9BI, was awarded two plaques, one for 50 years of continuously being licensed, and the second one for 50 years of being an Amateur. Congratulations, Jim!!!!

Other local members of the QCWA are W9DM, W9AKY, W9FIO, KØJYB, and KØKTP.

:-----:

Guess who sent Les Jenks, W9AKY, a QSL card! Himself!!!! Yes, that's right.. In 1924, Les sent a QSL card to then 8CWR,

now W9NN of Plover, Wis. For fun, the guy just recently sent Les his card back, after 62 years. What did Les do? He dug thru his old cards and sent 8CWR his card back, 62 years later.

Whoever said Ham Radio doesn't have its unusual twists?

-----RARC-----

Propagation Predictions

By Woody Minar, K9EF
13508 Tabscott Drive
Chantilly VA 22021

After reviewing the June data, it is plain to see that June was a month to be fishing for bass - not DX.

The solar radio flux declined to an average of 67. This means that June 1986 had the lowest radio flux average since July 1976, which also had an average of 67. Ten months earlier, in September 1975, an average of 68 was recorded.

These dates are interesting because 10 to 11 years, the average sunspot cycle length, separates them.

Now, if September, 1975, is, correlated to June, 1986, and if history repeats itself, July 1976 will correlate to May 1987. This means we are in the bottom of the present sunspot cycle. However, again, if history repeats itself, and it's doing so predictably well, we should see a sudden rise in propagation reliability this fall before it oscillates to the bottom in early- to mid-1987.

In an earlier article, I predicted February 1987 as the cycle bottom, and I'll stick to it. Here's the opinion of the forecasters at the Space Environment Services Center in Boulder, Colorado:

"The predicted time of the next solar minimum is based on the lengths of previous sunspot cycles. Cycle lengths over the last 136 years appear to fall into a bimodal distribution of about 123 and 140 months. No objective methods are available for determining the length of the current cycle (21), so the forecasters conservatively chose an average length of 133 months (minimum to minimum). Using this value, the minimum smoothed mean monthly sunspot number for the current cycle (21) should occur in July 1987. A cycle length of 140 months would result in a minimum sunspot number in February 1988.

"The predicted time of the next solar minimum is based on the average time between minimum and maximum, which is about four years. Even-numbered sunspot cycles appear "flat-topped," which means that the precise time of maximum is relatively meaningless. The forecasters predict that the maximum smoothed mean monthly sunspot number of the next sunspot cycle (22) will be reached in mid-1991. Sunspot numbers may be close to the maximum values for two years or more."

In the forecasters' opinion, the next cycle (22) will be somewhat below average in magnitude, but will not be an unusually "small" cycle.

The forecast for the next several months will be almost identical to the summer of 1976 - bad and difficult to differentiate from good and bad days.

August	18-20	Good
August	26-28	Bad
September	2-4	Good
September	10-12	Bad
September	17-18	Good
September	24-25	Bad

73, Woody

SMall Talk

By Richard R. Regent K9GDF
5003 South 26th Street
Milwaukee WI 53221

THE VEP IS HERE TO STAY

Q. How's the Volunteer Examiner Program doing?

A. With volunteer Amateurs giving exams in place of budget restrained FCC examiners, the VEP not only offers convenience to the candidates, but also ensures licensed Amateur Radio a secure future. In short, the VEP is a great success and is keeping up with the high volume of exams.

During 1985, the first complete year of the VEP, exams were given to 25,535 candidates at 1,900 sessions by 1,000 VE teams in all 50 states, plus Japan, Guam, West Germany, Kwajalein Island, Iceland, Panama, and Saudi Arabia.

The Technician Class is the most popular exam, with 5,653 licenses issued.

The ARRL VEC handled 62% of the exams and the other dozen VECs administered the remainder.

Both multiple choice questions, which help to standardize testing, and the ARRL VEC accreditation procedure, that can uniformly train examiners, are now used by most VECs.

Imagine giving 300 exams at the Dayton Hamfest, for example, and you'll know why my hat is off to all those hard-working volunteer examiners who make the VEP a success.

HAS ANYONE SEEN FReD?

Q. What's the delay on the Field Resources Directory?

A. The ARRL Field Resources Directory, nicknamed FReD, has been promoted since November, 1985, as a great reference listing of all of the League Official appointees and leaders, but unfortunately it is not yet in print.

Such a directory will provide a convenient list of volunteers for obtaining solutions to Amateur Radio problems or getting advice from local section specialists.

In January, 1986, ARRL Board Members found enough errors in the draft copy that they required information to be verified. Meanwhile, the printing production schedule shifted to a period for the Handbook, FCC Rule Book, and a License Manual. But there'll soon be a two-week window in the schedule to get FReD typeset in its final form.

Since the data keeps changing, let's hope all goes well so the fresh and accurate first printing of FReD will be out by August.

A HALF HOUR OR TWENTY YEARS?

Q. Does the League still sponsor awards like RCC or OTC?

A. It certainly does. Last year, there were 333 RCC and 124 OTC certificates issued. Awards chasing attracts many Amateurs as a vital part of their on-the-air activities.

The Rag Chewers Club (RCC) is designed to encourage friendly contacts and fraternalism through Amateur Radio, and certificates are awarded to Amateurs who report a QSO lasting a half hour or longer.

You are eligible to become a member of the Old Timers Club (OTC) if you held

an Amateur Radio license 20 or more years ago and are licensed at the present time.

For more information about such awards, check the ARRL Handbook (1986, page 38-13).

Headquarters (225 Main Street, Newington CT 06111) appreciates an s.a.s.e. when requesting these awards.

Please send your questions and problems to Small Talk, Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee WI 53221.

:-----:

FIELD DAY BONUS POINTS

Here are a few clubs which claimed one hundred bonus points for sending a message to the Section Manager (K9GDF) or the Section Emergency Coordinator (W9OAK) during Field Day. These messages were received by K9GDF (Club/Group, Call, Location):

ARC of Central Wisconsin - N9BBN - 2 miles southwest of Mauston

Falls ARC - K9RHH - Menomonee Falls

Watertown ARC - N9HR - Watertown

ManCoRad - W9BK - Manitowoc

West Allis RAC - W9FK - Mukwanago County Park

Calumet ARES - KN9P - Ledgeview Park - Chilton

North West RC - K9RMN - Tomahawk

Kettle Moraine Radio Amateurs - N9KS - Waukesha

Beloit ARC - K9EP - 4 miles south of Beloit

Oazukee RC - K9CAN - Lazy Daze Camp, Washington County

Central Wisconsin Radio Amateurs - W9NN - Stevens Point

Tri County ARC - W9MQB - 5 miles south of Fort Atkinson

N9BDL - N9BDL - On the banks of the Wisconsin River

Green Fox ARC - KB9WC - Green Lake

Flambeau ARC - KQ9J - Park Falls

River Rats FD Group - KB9S - Alfalfa field northeast of Pepin

W/K ARC - AE9K - South Milwaukee

N9NE - N9NE - Titan Stadium - U.W. Oshkosh

(Thanx to K9GDF for the list.)

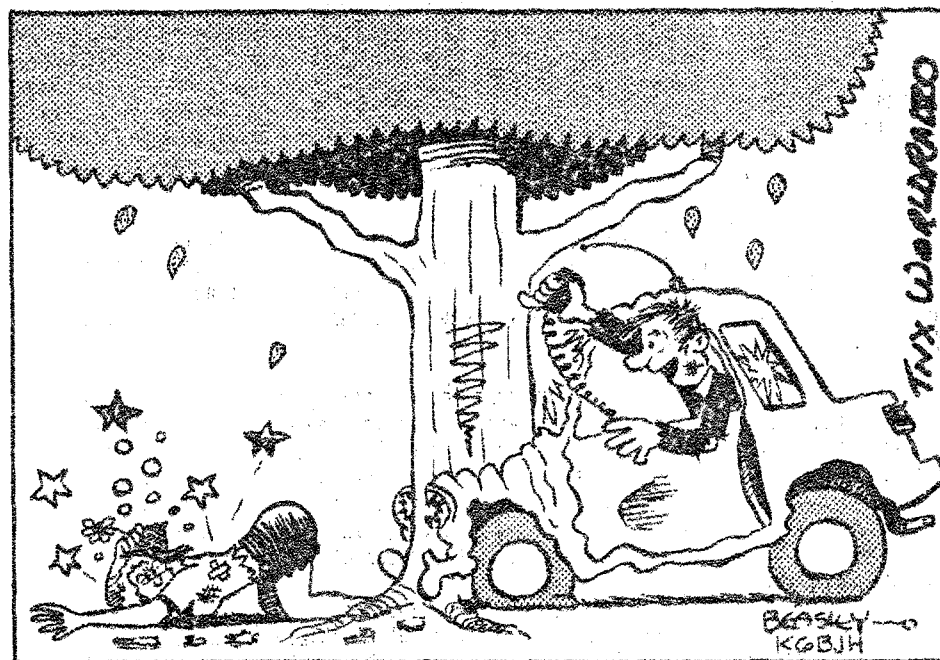
Editor's Note: Only one club sent Field Day photos to us; we'll hold those a month or two and see if any others pour in. k9zz)

--STUFF--

One of our exchange papers carried this item: "Found - glove for the left hand in the trunk of my car." This left me wondering what a left hand is doing there..

I should mention that Jo Ann Anderson is Phil, W9TP's, YF; see the item on page 6.

Ken Ebnetter, K9EN, Portage, is a candidate for Vice-Director of the Central Division of the ARRL in the upcoming elections; please keep Ken in mind when you mark your ballot. k9zz..



HEY--THE RIG STILL WORKS!



WISCONSIN NETS ASSOCIATION

WISCONSIN NETS

NET	WNA	FREQ	UTC	CDT	MANAGER
BWN	YES	3984	1100Z	0600	WD9IJD
BEN	YES	3985	1700Z	1200	KA9RII
WBN	YES	3985	2230Z	1730	WA9ZTY
WNN	YES	3723	2300Z	1800	N9DGL
WSSN	YES	3645	2330Z	1830	N9BDL
WIN-E	YES	3662	0000Z	1900	WB9ICH
WIN-L	YES	3662	0300	2200	KC9CJ
NWTV	YES	34/94	2330Z	1830	KD9VR
WCWTV	YES	31/91	2330Z	1830	NB9H
GR.BAY	NO	72/12	0145Z	2045	WB9NRK
			THU	WED	
WRN	NO	3625	2300Z	1800	K9UTG
			RTTY Sun. Tue. Thu.		

WISCONSIN SECTION MANAGER NEWS June 1986

Richard R. Regent K9GDF
5003 South 26th Street
Milwaukee WI 53221

September 9th I'll be featured at the Eau Claire ARC talking about the ARRL and answering questions on happenings in Amateur Radio news. Stop in to say hello, 7:30 p.m. at the Parks and Recreation Building on First at Oxford.

September 9th, emergency drill at Point Beach Nuclear Power Plant, contact Manitowoc County EC WB9MFB for details.

The Wisconsin Nets Association will hold its annual picnic on September 20th at Shawano County Park (4 miles north of HWY 29 on County HNH at north shore of Shawano Lake), with camping facilities, swimming, boating, refreshments, and awards. The picnic festivities will get underway about noon, traffic meeting at 1 p.m., emergency communication program and other fun activities later, everyone is welcome.

Exams September 20th at Waukesha County Technical Institute, send card to WD9JKZ.

Our Affiliated Club Coordinator, KA9FQZ, has a telephone campaign going to help club officers complete annual reports to retain their club ARRL affiliation. Clubs can receive extra info from Headquarters and ARRL benefits simply by returning the report.

The Ozaukee RC, a Special Service Club, has been approved by the ARRL to have WB9RQR as HF Awards Manager and KY9P as the VHF Awards Manager.

Silent Keys: W9LQC and N9FDW.

New officers Fox Cities ARC: KA9JOL, pres., K9DHR, v.p., KA9MSR, treas., W9NDP, sec.

KA9RII is helping set up an HF SSB station, with a

Drake 4C loaned by Handi-Hams, at Sacred Heart Hospital in Eau Claire as part of a speech - rehabilitation facility and also has become a Trans Continental Corps operator for Wednesdays CAND, DES, and DRS.

New DRS WB9YPY, N9DGL, N9BDL, K9LSU, and WB9ICH.

Emergency Coordinators needed for: Ashland, Bayfield, Burnett, Clark, Crawford, Florence, Forest, Grant, Green, Iowa, Jackson, Lafayette, Langlade, Lincoln, Marquette, Menomonee, Pepin, Polk, Richland, Rusk, Vilas, and Waushara counties. ECs must be an ARRL member, contact Gary W9DAK for further information.

Did you see the article I wrote in June QST bottom of page 69, "The First Hundred Feet"?

N9BDL, an active traffic handler, checked into 137 nets and was net control on 40 nets during a one month period this year!

Our former SM K9FHI is helping his second son to get an Amateur Radio license. Mike, 28, lives with his parents in Juneau and works as a draftsman in Mayville. When Mike passes, the Pedersen family Ham total will increase to four.

9RN CYCLE 4 REPORT FOR JUNE QNI 362 QTC 390 QTR 868 IN 60 SESSIONS WISCONSIN PARTICIPATION 90 PERCENT STATIONS N9AUG W9CBE KC9CJ WB9ICH KA9OBP W9QT AND W9YCV 73 - W9JUI 9RN NM

CAND REPORT FOR JUNE 1986 X 554 MESSAGES IN 30 SESSIONS X D9RN REPRESENTED 100 PERCENT X WISCONSIN STATIONS W9DDV N9BGE KA9RII WD9FRI AND WB9WGD X 73 - JERRY W5KLV CAND NM

GLASSARM REPORT

(Wisconsin Slow Speed Net)

Lee G. Andreas N9BDL
Net Manager
Route 1, Highway D East
Lake Tomahawk WI 54539

The timing for the Glassarm Report is perfect. It is due the month after the WNA meetings (it then appears two months after the aforementioned meeting). It is hoped that all readers understand this complex relationship.

The reason for this perfect timing is that I then can relate any pertinent details from the meeting to the fans of the WSSN. The most pertinent detail of the summer eyeball meeting was the conspicuous absence of the B.S.S.S. editor. Again. One of these years Jim will show up in self defense and, in so doing, will rob me of a paragraph in each chapter of the Glassarm Report.

The summer WNA meeting was held at Stevens Point in conjunction with the Central Wisconsin Swapfest. WSSN was well represented. The N.M., both delegates, and

five of the seven daily net control stations attended. Thanks, gang!

The usual business was dispatched in an orderly fashion by Pres. Larry WB9ICH. He does not have a last name at those meetings.

If you would like to know all about the inner workings of the WNA, attend the next meeting and picnic to be held near Shawano in September. Who knows, maybe K9ZZ will put in a cameo appearance. I did have the pleasure of meeting the new N.M. of the BEM, Lisa, also known as R Eleven. You too can meet the voices and fists of the nets associated with WNA by taking in some of these eyeball meetings. BE THERE!

There are four stations that I want to thank for regular participation in the WBSN. They are: Ralph, K9BED, of Milwaukee, Jim, W9CXY, of Kenosha, Robin, N19R, of Chippewa Falls, and Ed, W9NGP, of Oconomowoc. These four check in at least three times a week. It would be great if there were half a dozen more like them.

Now the part that everyone has been waiting for. Net statistics for the second quarter of 1986:

QNI QTC QSP QTR

577 227 161 1619

Hope all had a great Field Day and were able to be coherent when it was all over. Your antenna projects should hopefully be completed before the next installment of this column. See ALL of you at the fall WNA picnic.

73, Lee, N9BOL, NM

WISCONSIN INTRASTATE NET - EARLY (WIN/E)

Larry Guthu WB9ICH
Net Manager
706 West Jennings
New London WI 54961

Gosh! Here it is, time to write some more words of wisdom for BSSS. I don't know where the time goes.

First, I hope that everyone is enjoying the summer, heat and all, but look on the bright side, by next January, you'll be cool and comfortable.

OK, I'll stop with the jokes and get right to the good stuff. Second quarter stats, compared with a year ago, look something like this:

	QNI	QTC	QSP	QTR
APR/85	240	174	138	444
MAY/85	233	154	105	429
JUN/85	239	175	137	459

APR/86	278	187	128	463
MAY/86	285	210	144	484
JUN/86	255	184	144	463

As you can see, we are growing, not by leaps and bounds, but a nice gradual increase. This seems a little strange for summer, because normally during this period, we tend to see a slight drop because of people on vacations or other activities outside which keep our population down.

Onward and upward, as the saying goes. The top five checkins for the second quarter are as follows (out of 90 days):

W9NGP	85
N9BOL	80
W9CDE	72
W9CXY	69
W9YCV	59

I would like to congratulate all of you for the fine job and keep up the good work.

We still have openings for 9RN reps; if anyone is interested, drop me a radiogram or catch me on the net and I will let you know what we have.

Otherwise, things on the net have been running smoothly and no major problems. I hope to see a lot of you at the WNA picnic in Shawano in September. So, everyone have a fun summer and keep that WINning spirit rolling.

Best 73, Larry, WB9ICH

HELP, I NEED AN ATC!

Richard R. Regent K9SDF
5003 South 26th Street
Milwaukee WI 53221

The Assistant Technical Coordinator (ATC) program is flourishing in Wisconsin and leading nationwide with 20 hard-working ATCs.

The news of the ATC program success is spreading, but there are still folks who haven't heard, so they gather their technical questions and send letters to the ARRL Headquarters Technical Department. The Headquarters staff answers tons of letters, giving technical advice and solving problems.

With the beginning of the ATC program, the League can now forward a few of those general inquiries back to neighborhood ATCs. The ATCs, in turn, get in touch with the letter writers and try to answer questions, provide clarification, or make later follow-ups. The ATC program aids technical flounders, frustrated by working alone or missing a piece to their electronic puzzle, to find the specific and timely information they need.

It cuts the letter backlog and puts people into direct communications with each other. By talking with an ATC on the telephone, for example, solution seekers can ask questions until the sparks of ideas appear or a solution unfolds.

Most ATCs are typical Amateurs with good technical knowledge and a willingness to help others. In fact, some have been solving technical problems for others long before being appointed as ATCs. A few ATCs are specialists: repeater technicians, license-class

instructors, knowledgeable professionals, or skilled experimenters. They don't have trouble answering questions like "Do you have any information on a 3C24 tube? What are the element lengths of a multiband beam? What type of wire can I use for a dipole?" They can also adequately handle local RFI problems by making a personal visit.

One Wisconsin Amateur, named Warren, was concerned about his beam antenna problem. He bought four full-sized beams for 2, 10, 15, and 20 meters and carefully followed the installation instructions, but found high SWR on 15 meters. Despite a number of long distance phone calls to the manufacturer's service representative, none of the suggestions helped. Months passed by. Then Warren heard of the ATC program, made one local phone call to me, and asked for help. His request was immediately referred to our local ATCs.

Within a few days, eight ATCs phoned Warren to get more facts and provide suggestions. Some even wrote out their solutions and sent followup letters, while other ATCs offered to reinstall the beams properly.

The cure was to mount the 2-meter beam on top of the stack, not between the 10- and 15-meter beams, as the manufacturer had incorrectly recommended.

The numerous suggestions overwhelmed Warren with useful solutions. As Warren writes, in his thank-you letter, "I immediately got calls giving suggestions (from the ATCs) on how to correct my problem. After making the corrections, my SWR went right down to 1:1 and all antennas are working properly. Your prompt reply in this matter was greatly appreciated. Thanks again."

So whether you're an experienced Amateur or studying to become an Amateur, it's comforting to know that our local ATCs are available for guidance and technical assistance when you need help. If you would like to find out how you can become an ATC, please contact me.

Here is a list of the Wisconsin TC and ATCs:

K9GDF	Milwaukee (TC)	414-282-0312
N9CCI	Omaro	414-685-6172
WB9DHI	Cedarburg	414-375-2980
W9DLY	Hayward	715-634-4505
N9EJD	Wisconsin Rapids	715-421-2973
WB9EDA	Milwaukee	414-281-5361
K9EVH	Cudahy	414-481-5143
N9FBF	Milwaukee	414-543-4242
WB9FNU	Beaver Dam	414-887-7706
W9FSH	New Berlin	414-679-3915
NB9H	Menomonee	715-232-2414
NK9D	Milwaukee	414-342-3848
KD9PR	Green Bay	414-468-5523
KA9REK	West Milwaukee	414-643-5619
W9RYA	Oak Creek	414-762-3235
KV9U	Onalaska	608-783-8028
WA9UVK	Grafton	414-377-7779
AA9W	Mequon	414-242-0376
W9WI	Madison	608-273-0169
W9XT	Neosho	414-625-3533
WB9YSD	Verona	608-845-6429

Two insurance men were marooned on a desert island. They ran out of food, but one of the had an idea. He quickly opened up one of his policies and they had enough provisions to last for two months.

--South Milwaukee Voice

A BROUQUET TO K9GDF

3442 Surrey Lane
Falls Church VA 22042
22 June 1986

Correspondence Editor
John Hennessee, KJ4KB
QST
225 Main St.
Newington CT 06111

Dear John:

I've read "The First Hundred Feet" ("Strays", June 1986) several times. Each time, K9GDF's love for people speaks loud and clear to me, leading me to believe that the Wisconsin Section is in excellent hands.

I wonder if we would have to be so desperately looking for ways to increase the Ham population if more of us were like Richard Regent.

73, Jim Wilcox, K4JAP

FREDERICK LISHNUS NAMED TO SAVE NOGGA

GEARVAKf, Spring, 1986

Mr. Frederick R. Lishnus has been named to the Chairmanship of the Save the Nogga Foundation according to a statement released by Mr. Cleveland Aremurray, Executive Director of the Foundation. Lishnus will be in charge of publicizing the campaign to save the Nogga and will set up a defense fund for the endangered animal.

Recently, Aremurray and Lishnus appeared on a Radio 11, WWNE, talk show in Cleveland to promote the Foundation's cause. Frederick R. Lishnus is the brother of Dr. Elwood P. Lishnus, noted GEARVAKf Director, and co-discoverer of the Harnishe - Lishnus Effect. Further information on the effort to save the Nogga is available from Frederick R. Lishnus, c/o Radio Station WWNE, Cleveland, Ohio. -NB3R

DXers ARRESTED IN BEATING

GEARVAKf, Spring, 1986

Three well-known DXers were arrested in Escondido, California, on the 11th after they allegedly battered a local CB operator who refused to let the three work skip on channel 7. The three hams, all members of the Greater Baja DX Club and Surfing Symposium, said that they could not work skip on 11 meters when 10 meters was closed down tight. Questioned in a local hospital, CBer John "Two Eyes" Redstone explained that working Skip was quite easy for him. "Skip lives only two blocks away," he said.

--WA6ITF



Eau Claire A.R.C.

NEXT MEETING

The next meeting of the Eau Claire Amateur Radio Club will be held on August 12, 1986, at the Eau Claire Parks & Rec. Bldg. located at Oxford and first Sts. The meeting begins at 7:30 PM.

LUNCH COMMITTEE

Lunch committee for the August meeting is K9FIG & WB7OKQ.

JUNE MEETING SUMMARY

The meeting was opened at 7:30, presided over by Pres. Yost (KD9OB), with 42 persons attending. The Secretary's and Treasurer's reports were read and approved.

OLD BUSINESS

KA9GNG, Bill, reported that the club Field Day was a success, but the total number of contacts has not been tabulated yet. Field Day was held at Carson Park in conjunction with Saw Dust City Days, with the setup being in the press box over looking the football field and the park. Bill reported at least 15 people were involved, a partial list of those enjoying themselves were - W9EQP, K9VOP, KA9UZO, KA9NHI, KA9RII, N9ELW, KA9RZL, WB9ULD, W9EG, KA9LJK, W9FGZ and KA9GNS. Operations consisted of separate HF stations for voice and cw (yes there were a few) and a separate set-up for two meter Packet radio, with all stations using the call W9EG.

W9EQP, Todd, reported on the status of obtaining the frequencies for the Packet Radio Repeater, and the issue was tabled until the August meeting. It seems that he has not received any information from the state frequency coordinator as of yet. K9UXP, Don, suggested that a couple of the club members check out the repeater that is in W9FAC's, Paul's, garage.

KA9LJK, Phil, reported on the local Skywarn System and brought up some points of concern and training. People are not going through net control during a directed net, and therefore are defeating the purpose of having a net control operator. Phil also suggested that we re-work the guidelines covering net operations, and appointed the following people to handle specific positions.

W9NW, Carl, to be net control for Sky Warn nets; KA9RII, Lisa, to be liaison with points East of Eau Claire and W9AWG, Ralph, to be at the county's ECC (Emergency Communications Center).

The question of liability was brought up regarding the participation of those Amateurs taking an active part in the Sky Warn System during a call up. The club has a very very good and concerned group of under-age Hams who would like to help out. It was decided that their help is needed in the logging/recording of stations, messages and time during a Sky Warn net, and that any questions concerning the issue of liability of under-age members should be referred to our club President, KD9OB, Lane.

W9SAR, Bob, reported on the new repeater antenna situation and reported that nothing can be finalized until the antenna crew arrives and that is unknown. KA9LJK, Phil, reported that the 84/24 repeater needs a new mast and if it could be obtained by July 12, a local roofing company working on the Hospital could place it on the roof for us. (Ever tried to get a 20 foot piece of pipe into an elevator?) KA9HWN, Andy, might possibility have the pipe we need, but if not the club voted to pay reasonable expenses, if needed, for a piece of pipe.

KA9RII, Lisa, reported on the Sacred Hospital Project; reported that Handi Hams had donated a Drake TR-4 for use with the project and that N9CRD, Jones, has donated an antenna tuner also. The EARC (Eau Claire Amateur Radio Club) also donated \$50.00 to assist the project with any expenses in setting up the station. A hand mike was still needed.

NEW BUSINESS

W9WRM, Tommy, reported that there will be a EARC picnic August 24 at the Flag Hill section of Irvine Park in Chippewa Falls. N9CRD to reserve the facilities as he has done in the past for the club. (Rise & Shine Jones!) The meal will be served at 12:30 PM, the club will furnish soft drinks, coffee and ice cream. Bring your own utensils and a hot or cold dish to pass. KA9RII, Lisa, will be in charge of soft drinks.

N9FIN, Steve, donated a battery charger to the club's 31/91 repeater. Thanks. Steve also reported that the 31/91 repeater has a tendency to drift about 5 Kilo-hertz after it has been in use for about one hour or so. K9UXP, Don, will check this out.

A19N, Larry, the Hamfest director, reported everything is go for the Hamfest on July 12, and it will be in the same building as last years. It will open to club members at 7:00 AM and to the public at 8:00 AM, so that everyone can get to their assigned places and be set-up by 8:00 AM. Talk-in will be on the 146.31/91 repeater and on 146.52 simplex also. Amateur radio exams will be given by W9NW and other volunteers Friday evening to local Hams, and on Saturday from 9:00 AM to Noon for the Hams attending the Hamfest. Those wishing to take an exam should bring \$4.25, their original license and a copy of their original license. Walk-ins will be accepted. Also a Junk table will also run all day by the announcers stand for those who do not wish to take back home their prized possessions. To reserve a table to set your STUFF up on, put your call on a sheet of paper and take it to the table you want. N9EQR, Liz, will be making calls for lunch committee from the list she used last year. Also set-up crews are needed Friday starting at 7:00 - 7:30 AM and take down crews are needed Saturday between 2:30 and 3:00 PM. A good time should be had by all!!

W9NW, Carl, announced that he is starting another Novice class Thursday evenings and that any and all are welcome.

Meeting adjourned.



THE WISCONSIN PACKETEER

W.A.P.R. MEETING NOTES

As promised, the W.A.P.R. meeting held at the 1986 South Milwaukee Swapfest enacted several changes that will affect all packet operations, to some extent, in the state.

The meeting was called to order by Dave Boede - WD9ESH at 1:12 p.m. Other members to the Board of Directors present were Gary Gilbertson - WB9SDA and Jack Sides - WB9YLR. 46 persons were in attendance.

Gary reported that there are currently 88 members of W.A.P.R. with \$4.50 of the seven dollar annual dues covering costs of newsletter inclusion in Badger State Smoke Signals. With other incidental costs subtracted, the balance of the treasury stands at \$214.50. There is a planned annual increase to \$5.00 per subscription for BSSS this fall which will reduce growth of the treasury.

A general discussion, brought up from the floor, followed the treasurer's report pertaining to a dues membership increase. The general consensus by the members present - to increase dues from seven dollars to ten dollars annually. An increase to ten dollars would not tax members pocketbooks, would cover all foreseeable expenses of the organization for several years to come and, most important, provide funds that can be used to establish and/or subsidize dependable, digipeater networks within the state. A motion was made from the floor that annual dues be raised to ten dollars. The motion passed.

Dave announced that his tenure on the Board of Directors was due to expire prior to the next meeting and that an election was in order. A motion from the floor nominated Dave to another term. A second motion nominated Roy - WA9KEC with a motion to close nominations quickly following. As Roy cited he could not accept the nomination due to time constraints, Dave was re-elected to another term.

Dave also announced that he would be unable to continue editing materials for the newsletter "The Wisconsin Packeteer". He has been doing this work for over a year and it was time someone else took up the reins. He thanked all the individuals that had submitted articles and urged that submissions to the newsletter be increased in order to keep the information flowing. He nominated Steve - WB9ZRE to edit the newsletter. The nomination passed.

A new digipeater - WD9HFT is operating in Chippewa Falls and provides a path from Eau Claire to Rochester, Minnesota. It was hoped that this digipeater would provide a link thru to the eastern part of Wisconsin, but, at this time, the digipeater can only be reached during band openings. A discussion from the floor proposed that W.A.P.R. develop a reliable path to Minnesota, sponsoring digipeaters in critical path areas such as to the western parts of Wisconsin. With the increase in dues, the organization could assist establishing two digipeaters a year within the state. The Board of Directors will consider the proposal and give priority to critical path areas. Members should submit their suggestions to the W.A.P.R. mailing address.

Gary reported that WB9SDA-1 in Brownsville was set up to provide long distance digipeating for east-central Wisconsin. The equipment is all privately owned and he is supplying funding for its operation. In cases similar to his, W.A.P.R. funding is unnecessary and should be considered only for areas that would not have reliable paths unless funding were received.

Dave reported that only one frequency proposal had been submitted for consideration. The four page outline was submitted by Jack - WB9YLR and takes into consideration the plans adopted by Illinois and Michigan. Discussion on the plan lasted more than two and a half hours. There was considerable input and clarifications from the members and the plan was adopted on a trial basis lasting one year. Any comments or proposed changes to the plan should be sent to the W.A.P.R. mailing address for consideration. The adopted plan is fluid and changes may be made during the trial basis. The plan reads:

WISCONSIN PROPOSAL

"The proposal for a Wisconsin Packet Radio Frequency Plan is one of great similarity to Illinois and Michigan. We propose that a network of LANs (Local Area Networks) be established in the state, with 145.010 designated for Inter-LAN and Mail Forwarding between BBSs.

A LAN is defined as a self-serving network of stations located in the same general area, served by a single digipeater with limited height and power necessary to adequately serve the packet stations in the designated area. Each LAN will also have a single WOLRI type BBS accessible by all stations located in the LAN. This type BBS would operate on 145.010, regardless of the LAN's normal frequency. Only stations located within the LAN would be allowed to access this BBS. For Intra-LAN message handling, another BBS or MSD (Message Storage Operation) should be established on the LAN frequency. This LAN BBS need not handle auto-forwarding of traffic, and would be established only for use of that LAN's members. In other words, messages to stations within a LAN would be handled on the LAN frequency by the LAN BBS, and messages targeted to stations outside the LAN would be handled by the BBS on 145.010. Additionally, any real-time communications outside the LAN (with the exception of non-digipeated packet simplex) would take place on 145.010.

To better illustrate this plan, the following example shows what a typical LAN would look like:

Consider the greater Milwaukee area as LAN "A", and Madison as LAN "B". Within LAN "A", W9XYZ maintains a WOLRI BBS on 145.010. Likewise, W9ABC maintains a BBS in the Madison area on 145.010. Also located in the Milwaukee area is W9ZYX who wishes to forward a message to his friend W9CBA in the Madison LAN. Now, it is possible for W9ZYX to hit the Madison LAN BBS direct, but at what expense in congestion? Under this plan, he would leave his message on the Milwaukee LAN BBS to be auto-forwarded to the Madison LAN BBS. Once the message has been put on the Milwaukee BBS, W9ZYX returns to his LAN's frequency...say 145.030 for regular local, real-time communication with other stations within the LAN.

If, however, he wishes to contact stations outside his LAN, he would do so on 145.010, using whatever path and digipeaters necessary to make the connection. In other words, real-time conversation between stations in different LANs would take place just as they do today, on 145.010, with all the congestion and problems we currently experience...the difference being that all local, real-time communications will be on a frequency other than 145.010 MHz.

One main ingredient in this proposal is that BBSs WILL NOT auto-forward as frequently as they do now. Auto-forwarding should be done only between the hours of 0100 and 0400 daily (local time - ed.). This will cut down on unnecessary congestion. BBS sysops will also be requested to forward info of general interest to all other cellular BBSs in the state. This will be a start toward eliminating much of the multi-hop connects made by many operators for the sole purpose of checking to see if there are any messages or files of interest that may not be on his or her local BBS. Naturally, not everything will be everywhere, but it's a start.

There are many more items to be taken into consideration in dealing with UHF linking, particularly high-speed linking, and that will not be addressed in this proposal. It is our recommendation that a technical committee be formed to work closely with CAPRA and PRISM, as well as organizations from Minnesota and Iowa. Only thru close coordination and cooperation between cells within the state and operators and organizations from other neighboring states will this proposal work. This type of bandplan is currently in place in a number of areas around the country, and has proven to be workable. With proper implementation, it can also be successful in Wisconsin."

INFO.....

As of July 19, W9DHI has moved his BBS and gateway to 145.090.

My list of active packet stations in Wisconsin puts the total over 112.

Newest packet station as of July 21 is W9BBN - John in Mauston using a MFJ-1270 and a borrowed rig!

W.A.P.R. EXTENDS IT APPRECIATION TO VERN TESKE - W9RYA AND THE SOUTH MILWAUKEE AMATEUR RADIO CLUB FOR PROVIDING A SITE FOR THE W.A.P.R. MEETING.

That's it for this month as I only had a day to make the deadline for BSSS. Many of you packeteers have stories that could be shared with the rest of the state and here is your chance to share your experiences. Just looking at my packet monitor log, I see new calls popping up each week. Additionally, there are many more amateurs out there who would jump in if only they had a little help, and this newsletter could give them that push. Spend a little time to write an article or an item of interest down and send it in, better yet, I am on 24 hours via W9SDA-1 or W9SOU-2.

FIELD DAY AND PACKET

Conditions couldn't have been better for packet operations with a nice band opening that began on Friday evening and lasted, on and off, thru Sunday morning. Connect requests literally jammed 145.010 shortly after 1800 UTC. There was a temptation to move our 4-element beam in the direction of every station as it was heard. Instead, I set our FD station on "semi-automatic", that is, the ctext message gave all the site information while I enjoyed brats on the grill and an ample supply of liquid refreshments! I figured that a FD btext would snag a few easy points for our set-up and I would go after the others later when the frequency cooled down. Monitoring the screen occasionally to interject a comment or two, I also worked thru the 40 meter phone band for 15 hours. Following a few initiated connects of my own, and more refreshments, our FD group made 31 contacts in 5 states by the end of Field Day - a respectable total. With the large growth in packet activity in Wisconsin, this total should double next year. By the way, the call we used was KB9WC and if you didn't connect with us, you weren't trying very hard. Until next year - CHEERS!

From W89ZRE

HEATH DISCONTINUES DISTRIBUTION OF WABDED CODE from ARRL GATEWAY

In a recent issue of Gateway, we reported that the Heath company was giving away, free of charge, copies of the WABDED TNC code to any of their HD-4040 customers for simply sending Heath the original invoice as proof of purchase. However, a recent series of events has left Heath unable to continue this practice, and the project has been abandoned.

According to Mr Wayne Wilson, the Product Line Manager for Amateur Radio Products at Heath, the project was discontinued after learning that Ron Raikes, WABDED, author of the well known "DED" code was requesting a royalty payment for each copy of the code distributed. Apparently, Heath was not able to reach Mr Raikes in time to receive his consent to distribute the code before the latest Heath catalogue went to press. According to Mr Wilson, Heath was under the understanding that the software, while copyrighted, had been placed in the public domain by Mr Raikes. "We had apparently misinterpreted his (WABDED) intent to give away the software. Our intent was to help Mr. Raikes distribute it."

Ron Raikes, WABDED, also spoke to Gateway regarding the matter. According to Mr. Raikes, owner of Software 2000 in Downey CA, a company that writes network operating systems, the code was meant to be distributed free of charge for "nonprofit, noncommercial, Amateur use." Mr Raikes felt that the Heath venture did not fit the bill of a nonprofit organization even though Heath was not charging its customers for the software.

Accordingly, Heath will pay Mr Raikes an undisclosed amount of cash for copies of the software distributed thus far.

From WA2FTC

JAS-1 Launch On Schedule; ALINS Coverage Announced from AMSAT News Service

AMSAT will support an AMSAT Launch Information Network Service (ALINS) operation for the launch of JAS-1, the Japanese Amateur Radio League (JARL) satellite. The launch will take place from the Japanese island of Tanegashima on 31 July at 2030 UTC. ALINS coverage began on 4 July.

ALINS will feature three phases: Pre-launch advisories and nets; realtime launch and separation coverage; post-launch advisories and nets.

For the pre-launch phase, JAMSAT President Harry Yoneda, JAIANG, will compile pre-launch advisories from information available from JARL and NASDA, the Japanese launch authority. These advisories will be TELEXed to Ralph Wallio, WORPK, AMSAT Vice President of Operations. Ralph will then refile the reports to various AMSAT media such as AMSAT's electronic mail system called Telemail and to various dial-in and packet radio bulletin boards.

WEEKLY ADVISORIES will be sent by JAIANG on Fridays (U.S. time) starting 04 July and continuing through 25 July. They will be transferred to Telemail for inclusion in the AMSAT News Service weekly releases. The weekly advisories will be included in all AMSAT net operations.

In the days leading up to launch, the reporting pace will quicken. DAILY ADVISORIES will be sent by JAIANG starting Monday, 28 July and continuing to launch day, Thursday 31 July. They will be transferred to Telemail by WORPK as soon as possible to allow for timely dissemination.

The WEEKLY and DAILY ADVISORIES will be available via AMSAT Telemail to affiliated AMSAT stations worldwide for nets for their areas.

Special 75 meter AMSAT net sessions will be held on Monday 28 July and Wednesday 30 July. The usual Tuesday evening net session will be held on schedule 29 July. The 75 meter frequency is 3857 kHz.

REALTIME launch coverage begins on launch day, 31 July (U.S. time). Coverage will start with hf net check-ins at 1930 UTC. Teleconference linking of all net stations will begin at 2000 UTC. Nets will be active on 20 and 40 meters. Frequencies planned for use include 14282, 14295, 7185 and, if 15 meters is open, 21390 kHz. JAIANG in Japan will be included in the teleconference to provide a first-hand description of launch and boost phases.

Teleconference and net operations will continue with separation and first beacon reports from South America at 2132 UTC. These reports and a wrap-up of events will conclude the realtime coverage at 2200 UTC.

POST-LAUNCH ADVISORIES will be sent by JAIANG on Friday, Saturday and Sunday (August 1st to 3rd) as necessary. Special 75 meter AMSAT nets will be held on Thursday and Friday evenings to distribute Keplerian elements, satellite information and to recap launch coverage. Information will continue to be available through the weekend on the 20 meter South Pacific AMSAT net (Saturday 14.282 MHz 2200 UTC) and the Sunday 20 meter net (14.282 MHz 1900 UTC).

Here is this week's JAS-1 advisory from JAIANG:

"The current JAS-1 launch schedule is 31JUL86 at 1930UTC. This schedule may change as late as 48-hours before the actual launch date and time.

"AS-1 separation from the H-1 second stage is scheduled to occur 01H 02M 07S after lift off at a height of 1503 Km at 20S latitude and 53W longitude (overhead of Chile in South America)."

The launch time given by JAIANG, 1930 UTC, is one hour earlier than previously announced. AMSAT is seeking confirmation of the new time. If the new, earlier time holds, all net schedules will be adjusted one hour earlier than the time announced.

The following pre-launch Keplerian elements have been supplied for JAS-1:

Ref Epoch:	86212.897306	UTC
Inclination:	50.004	deg
RAAN:	237.456	deg
Eccentricity:	0.0001407	
Arg. of Per:	2.155	deg
Mean Anomaly:	330.246	deg
Mean Motion:	12.412719	rev/day
Decay:	0	rev/day/day
Epoch Rev:	0	
SMA	7879.56	km
Beacon:	435.795	MHz

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We regret that we find it necessary to make a small increase in the subscription rate for Badger State Smoke Signals subscribers. Current rates:

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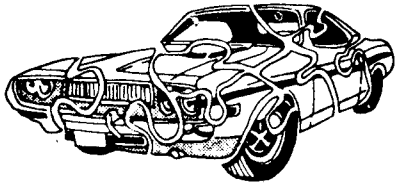
***** RENEW NOW AND SAVE! *****

Jim, K9ZZ is looking for CP/M for the RS model 4.

This brings us to the end of our 200th issue. We wish to thank everyone that has helped over the years, the many contributed articles, pictures, cartoons, etc., and especially to the many helping hands who made many evenings work shorter.

---73 de bsss staff

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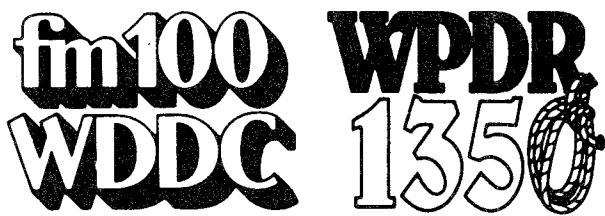
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